



#24

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Sheet 1 of 1

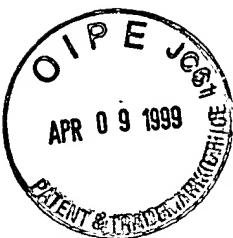
Form PTO-1449 (REV. 8-83)				U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 74451.P024C	SERIAL NO. 08/941,466	
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				APPLICANT Zandi, et al.				
				FILING DATE 9/20/94 9/30/97	GROUP 2723 2610			
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ		5 3 4 7 4 7 9	9/13/94	Miyazaki		708	400	12/22/92 98
TJ		5 4 1 2 7 4 1	5/2/95	Shapiro		382	232	1/22/93
TJ		5 4 5 3 9 4 5	9/26/95	Tucker, et al.		708	400	1/18/94
TJ		5 4 9 7 4 3 5	3/5/96	Berger		382	249	2/22/93
TJ		5 5 3 4 9 2 5	7/9/96	Zhong		382	240	5/22/94
TJ		5 5 3 7 4 9 3	7/16/96	Wildinson		382	240	6/29/94
TJ		5 5 4 6 4 7 7	8/13/96	Knowles, et al.		382	242	3/30/93
TJ		5 5 6 3 8 9 0	10/8/96	Shapiro		382	239	12/17/93
TJ		5 6 0 2 5 8 9	2/11/97	Vishwanath, et al.		348	398	8/19/94
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				APPLICANT				
				Zandi, et al.		FILING DATE		
				9/20/94		GROUP		
						2723		
U.S. PATENT DOCUMENTS								
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TJ		4 9 8 5 9 2 7	1/15/91	Norwood et al.		382	149	
TJ		4 9 8 7 4 8 0	1/22/91	Lippman et al.		348	396	
TJ		5 0 0 0 1 8 3	3/19/91	Bonnefous		600	437	
TJ		5 0 0 1 7 6 4	3/19/91	Wood et al.		382	145	
TJ		5 0 1 4 1 3 4	5/7/91	Lawton et al.		358	261.3	
TJ		5 0 1 8 2 1 0	5/21/91	Merryman et al.		382	145	
TJ		5 0 6 8 9 1 1	11/26/91	Resnikoff et al.		382	240	
TJ		5 0 7 3 9 6 4	12/17/91	Resnikoff		382	277	
TJ		5 0 8 1 6 4 5	1/14/92	Resnikoff et al.		375	146	
TJ		5 0 9 5 4 4 7	3/10/92	Manns et al.		382	144	
TJ		5 1 0 1 4 4 6	3/31/92	Resnikoff et al.		382	248	
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TJ		0 6 2 2 7 4 1	3/30/94	EPO	606F	15/832		
TJ		2 2 8 4 1 2 1	5/24/95	UK	104N	7/26		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
TJ		"1977 IEEE International Conference on Acoustics, Speech & Signal Processing", "Application of Quadrature Mirror Filters to Split Band Voice Coding Schemes", D. Esteban and C. Galand, p. 191-195.						
TJ		Martin Vetterli, "Filter Banks Allowing Perfect Reconstruction", Signal Processing 10 (1986), p. 219-244.						
TJ		R. E. Crochiere, S. A. Webber, J. L. Flanagan, "Digital Coding of Speech in Sub-bands", 1976, American Telephone and Telegraph Company, The Bell System Technical Journal, Vol. 55, No. 8, October 1976, p. 1069-1085.						
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U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL	DOCUMENT NUMBER			DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ	5103306	4/7/92	Weiman et al.	348	400				
TJ	5121191	6/9/92	Cassereau et al.	348	443				
TJ	5124930	6/23/92	Nicolas et al.	702	76				
TJ	5128757	7/7/92	Citta et al.	348	384				
TJ	5148498	9/15/92	Resnikoff et al.	392	248				
TJ	5152953	10/6/92	Ackermann	266	252				
TJ	5156943	10/20/92	Whitney	430	321				
TJ	5173880	12/22/92	Duren et al.	367	73				
TJ	5420891	5/30/95	Akansu	375	360	3/18/93			
TJ	3580655	5/25/71	Leith et al.	359	28				
TJ	3950103	4/13/76	Schmidt-Weinmar	356	345				
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TJ	9609718	3/28/96	PCT	HOHN	1/41				
TJ	9519683	7/20/95	PCT	HOHN	7/26				
TJ	0701375	3/13/96	EPO	HOHN	7/26				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
TJ		John W. Woods and Sean D. O'Neil, "Sub-band Coding of Images", Proceedings ICASSP 86, Tokyo, Japan, April 1986, p. 1005-1008.							
TJ		John W. Woods, "Subband Coding of Images", IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-34, No. 5, October 1986, p. 1278-1288.							
TJ		"Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 3 of 4, "Sub-band Coding of Images Using Predictive Vector Quantization", P. H. Westernick, J. Biemond and D. E. Bokee, p. 1378-1381.							
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APPLICANT Zandi, et al.					
FILING DATE 9/20/94				GROUP 2723	

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*EXAMINER INITIAL	DOCUMENT NUMBER				DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ	4	1	3	6	9	5	4	1/30/79	Jamieson	356 349
TJ	4	2	2	3	3	5	4	9/16/80	Noble et al.	348 724
TJ	4	5	9	9	5	6	7	7/8/86	Goupillaud et al.	324 76-33
TJ	4	6	6	3	6	6	0	5/5/87	Fedele et al.	348 397
TJ	4	7	0	1	0	0	6	10/20/87	Perlmutter	359 9
TJ	4	7	6	0	5	6	3	7/26/88	Beylkin	362 73
TJ	4	7	8	5	3	4	9	11/15/88	Keith et al.	348 390
TJ	4	8	0	5	1	2	9	2/14/89	David	708 300
TJ	4	8	1	7	1	8	2	3/28/89	Adelson et al.	382 248
TJ	4	8	2	1	2	2	3	4/11/89	David	708 308
TJ	4	8	2	7	3	3	6	5/2/89	Acampora et al.	348 396

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER				DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

TJ		Mark J. T. Smith and Thomas P. Barnwell, III, "Exact Reconstruction Techniques for Tree-Structured Subband Coders", IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-34, No. 3, June 1986, p. 434-441.
TJ		Marvin Vetterli, "Multi-Dimensional Sub-Band Coding: Some Theory and Algorithms", Signal Processing 6 (1984) p. 97-112.
TJ		H. Gharavi and Ali Tabatabai, "Sub-band Coding of Digital Images Using Two-Dimensional Quadrature Mirror Filtering", SPIE Vol. 707 Visual Communications and Image Processing p. 51-61.

## EXAMINER

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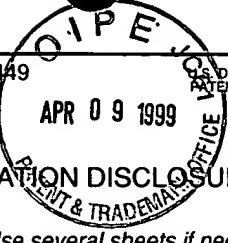
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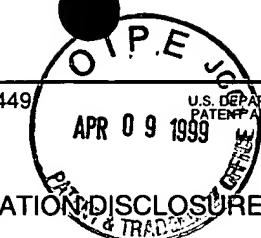
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ		4 8 2 9 3 7 8	5/9/89	Legall		348	398	
TJ		4 8 3 7 5 1 7	6/6/89	Barber		324	339	
TJ		4 8 6 4 3 9 8	9/5/89	Avis et al.		348	443	
TJ		4 8 9 7 7 1 7	1/30/90	Hamilton et al.		348	404	
TJ		4 9 0 4 0 7 3	2/27/90	Lawton et al.		359	851	
TJ		4 9 2 9 2 2 3	5/29/90	Walsh		493	56	
TJ		4 9 3 6 6 6 5	6/26/90	Whitney		359	565	
TJ		4 9 7 4 1 8 7	11/27/90	Lawton		708	920	
TJ		4 9 8 2 2 8 3	1/1/91	Acampora		348	410	
TJ		4 3 9 3 4 5 6	7/12/83	Marshall, Jr.		708	316	
TJ		4 5 6 9 0 7 5	2/4/86	Nussbaumer		704	203	
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TJ		0 5 9 3 0 1 3	4/20/94	EPO		404N	71-3	
TJ		0 5 1 0 9 3 3	10/28/92	EPO		404N	1141	
TJ		8 8 1 0 0 4 9	12/15/88	PCT		404N	71-33	
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TJ		"Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 4 of 4, "Application of Quadrature Mirror Filtering to the Coding of Monochrome and Color Images", H. Gharavi and A. Tabatabai, p. 2384-2387.						
TJ		International Search Report for Application No.: GB 9518298.6, dated 8 November 1995.						
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				APPLICANT <b>Zandi, et al.</b>			
				FILING DATE <b>9/20/94</b>		GROUP <b>2723</b>	
<b>U.S. PATENT DOCUMENTS</b>							
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TJ	4 6 5 2 8 8 1	3/24/87	Lewis	342	160		
TJ	4 6 7 4 1 2 5	6/16/87	Carlson et al.	382	303		
TJ	4 7 8 5 3 4 8	11/15/88	Fonsalas et al.	348	425		
TJ	4 7 9 9 1 7 9	1/17/89	Masson et al.	208	313		
TJ	4 8 1 5 0 2 3	3/21/89	Arbeiter	208	301		
TJ	4 8 3 9 8 8 9	6/13/89	Gockler	370	210		
TJ	4 8 6 8 8 6 8	9/19/89	Yazu et al.	204	205		
TJ	4 9 1 8 5 2 4	4/17/90	Ansari et al.	348	398		
TJ	5 0 4 9 9 9 2	9/17/91	Citta et al.	348	443		
TJ	5 0 4 9 9 9 3	9/17/91	Legall et al.	348	448		
TJ	5 0 7 2 3 0 8	12/10/91	Lin et al.	358	426		
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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
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U.S. PATENT DOCUMENTS

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TJ	5 0 9 7 3 3 1	3/17/92	Chen et al.	348	398	
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TJ	5 1 2 8 7 9 1	7/7/92	Legall et al.	348	469	
TJ	5 1 8 2 6 4 5	1/26/93	Breeuwer et al.	348	458	
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TJ	5 2 6 2 9 5 8	11/16/93	Chui et al.	702	75	
TJ	5 4 9 5 2 9 2	2/27/96	Zhang et al.	348	407	9/3/93

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